

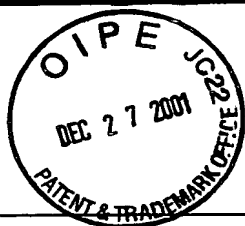
Sheet 1 of 24

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Form PTO-1449 Modified		Docket No. ISIS-4803	Serial No. 09/973,981
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Manoharan et al.	
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	AU	Kornberg, A. et al., <i>DNA Replication</i> , 1980 , W.H. Freeman & Co., San Francisco, 4-7
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	AZ	Leonetti, J.P. et al., "Biological Activity of Oligonucleotide-Poly(L-lysine) Conjugates: Mechanism of Cell Uptake", <i>Biconjugate Chem.</i> , 1990 , 1, 149-153	
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	BH	Martin, P., "Ein neuer Zugang zu 2'-O-Alkylribonucleosiden und Eigenschaften deren Oligonucleotide", <i>Helvetica Chemica Acta</i> , 1995 , 78, 486-504 (English summary included)	
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	BO	Sanghvi, Y.S., "Heterocyclic Base Modifications in Nucleic acids and their Applications in Antisense Oligonucleotides", <i>Antisense Research and Applications</i> , Crooke, S.T. et al. (eds.), CRC Press, 1993 , Chapter 15, 273-288	
	BP	Shea, R.G. et al., "Synthesis, hybridization properties and antiviral activity of lipid-oligodeoxynucleotide conjugates", <i>Nucl. Acids Res.</i> , 1990 , 18, 3777-3783	
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	BT	Yamana, K. et al., "Synthesis and Interactive Properties of an Oligonucleotide with Anthraquinone at the Sugar Fragment", <i>Biconjugate Chem</i> , 1990 , 1, 319-324	
<i>u</i>	BU	Yoneda et al., "Synthetic Peptides Containing a Region of SV40 Large T-Antigen Involved in Nuclear Localization Direct the Transport of Proteins into the Nucleus", <i>Exp. Cell Res.</i> , 1987 , 170, 439-452	
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	BW	Zuckermann, R.N. et al., "Site-Selective Cleavage of RNA by a Hybrid Enzyme", <i>J. Am. Chem. Soc.</i> , 1988 , 110, 1614-1615	
	BX	Atherton, E. et al., "The Fluorenylmethoxycarbonyl Amino Protecting Group", <i>The Peptides</i> , 1987 , 9, 1-39	
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	BZ	Verhart, C.G.J., "New base-labile amino-protective groups for peptide synthesis", <i>Recl. Trav. Chim. Pays-Bas</i> , 1988 , 107, 621-626	
	CA	Habus, I. et al., "A Mild and Efficient Solid-Support Synthesis of Novel Oligonucleotide Conjugates", <i>Bioconj. Chem.</i> , 1998 , 9, 283-291	
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*	CE	Cohen in <i>Oligonucleotides: Antisense Inhibitors of Gene Expression</i> , CRC Press, Inc., Boca Raton, FL, 1989	
*	CF	Greene et al., <i>Protective Groups in Organic Synthesis</i> , 2d ed., Chapter 2, John Wiley & Sons, New York, 1991	
*	CG	Ekstein, F. (Ed.), <i>Oligonucleotides and Analogues A Practical Approach</i> , IRL Press, N.Y., 1991	
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	CI	4,469,863	09/04/84	Ts'o et al.	536	27
	CJ	4,476,301	10/09/84	Imbach et al.	536	27
	CK	4,587,044	05/06/86	Miller et al.	530	211
	CL	4,605,735	08/12/86	Miyoshi et al.	536	27
	CM	4,667,025	05/19/87	Miyoshi et al.	536	27
	CN	4,689,320	08/25/87	Kaji	514	44
	CO	4,725,677	02/16/88	Köster et al.	536	27
	CP	4,762,779	08/09/88	Snitman	435	6
24	CQ	4,789,737	12/06/88	Miyoshi et al.	536	27

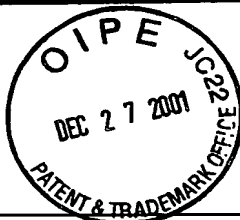
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24	CR	0 251 283	06/29/87	EPO	X	
	CS	WO 86/02929	05/22/86	PCT	X	
	CT	WO 90/10448	09/20/90	PCT	X	
	CU	WO 90/12096	10/18/90	PCT	X	
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	CY	4,824,941	04/25/89	Gordon et al.	530	403
	CZ	4,828,979	05/09/89	Klevan et al.	435	6
	DA	4,835,263	05/30/89	Nguyen et al.	536	27
	DB	4,845,205	07/04/89	Huynh Dinh et al.	536	28
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	DD	4,904,582	02/27/90	Tullis	435	6
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	DJ	5,013,830	05/07/91	Ohtsuka et al.	536	27
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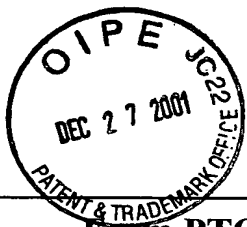
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	DV	5,134,066	07/28/92	Rogers et al.	435	91
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	DX	5,138,045	08/11/92	Cook et al.	536	27
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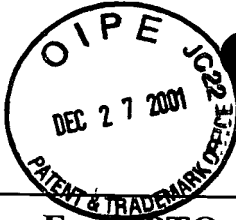
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	EB	5,175,273	12/29/92	Bischofberger et al.	536	27
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	EF	5,194,428	03/16/93	Agrawal et al.	514	44
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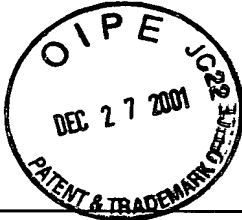
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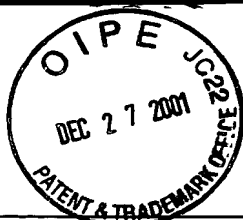
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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office				Docket No. ISIS-4803	Serial No. 09/973,981	
				Applicant Manoharan et al.		
				Filing Date October 9, 2001	Group Not yet assigned	
U. S. PATENT DOCUMENTS						
Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>h</i>	FD	5,321,131	06/14/94	Agrawal et al.	536	25.34
	FE	5,359,044	10/25/94	Cook et al.	536	23.1
	FF	5,366,878	11/22/94	Pederson et al.	435	91.3
	FG	5,367,066	11/22/94	Urdea et al.	536	24.3
	FH	5,371,241	12/06/94	Brush et al.	549	220
	FI	5,378,825	01/03/95	Cook et al.	536	25.34
	FJ	5,386,023	01/31/95	Sanghvi et al.	536	25.3
	FK	5,391,723	02/21/95	Priest	536	23.1
	FL	5,393,878	02/28/95	Leumann	536	28.2
<i>M</i>	FM	5,399,676	03/21/95	Froehler	536	23.1
FOREIGN PATENT DOCUMENTS						
Examiner Initial		Document No.	Date	Country	Translation YES NO	
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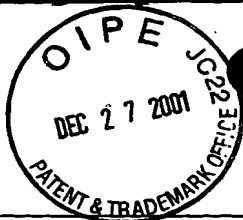
Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. ISIS-4803	Serial No. 09/973,981
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Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>u</i>	FN	5,403,711	04/04/95	Walder et al.	435	6
	FO	5,405,938	04/11/95	Summerton et al.	528	406
	FP	5,405,939	04/11/95	Suhadolnik et al.	530	322
	FQ	5,414,077	05/09/95	Lin et al.	536	24.3
	FR	5,416,016	05/16/95	Low et al.	435	240.1
	FS	5,416,203	5/16/95	Letsinger	536	25.34
	FT	5,432,272	07/11/95	Benner	536	25.3
	FU	5,434,257	08/18/95	Matteucci et al.	536	24.3
	FV	5,446,137	08/29/95	Maag et al.	536	23.1
<i>N</i>	FW	5,451,463	09/19/95	Nelson et al.	428	402

FOREIGN PATENT DOCUMENTS

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<i>u</i>	FX	5,453,496	09/26/95	Caruthers et al.	536	24.5
	FY	5,455,233	10/03/95	Spielvogel et al.	514	44
	FZ	5,457,187	10/10/95	Gmeiner et al.	536	25.5
	GA	5,457,191	10/10/95	Cook et al.	536	27.13
	GB	5,459,255	10/17/95	Cook et al.	536	27.13
	GC	5,466,677	11/14/95	Baxter et al.	514	44
	GD	5,466,786	11/14/95	Buhr et al.	536	26.26
	GE	5,470,967	11/28/95	Huie et al.	536	24.3
	GF	5,476,925	12/19/95	Letsinger et al.	536	23.1
<i>u</i>	GG	5,484,908	01/16/96	Froehler et al.	536	24.31

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<i>Q</i>	GH	5,486,603	01/23/96	Buhr	536	24.3
	GI	5,489,677	02/06/96	Sanghvi et al.	536	22.1
	GJ	5,491,133	02/13/96	Walder et al.	514	44
	GK	5,502,177	03/26/96	Matteucci et al.	536	2606
	GL	5,506,351	04/09/96	McGee	536	55.3
	GM	5,510,475	04/23/96	Agrawal et al.	536	24.3
	GN	5,512,439	04/30/96	Hornes et al.	435	6
	GO	5,512,667	04/30/96	Reed et al.	536	24.31
	GP	5,514,785	05/07/96	Van Ness et al.	536	22.1
<i>Q</i>	GQ	5,519,126	05/21/96	Hecht	536	24.3

FOREIGN PATENT DOCUMENTS

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Not yet assigned**U. S. PATENT DOCUMENTS**

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>u</i>	GR	5,519,134	05/21/96	Acevedo et al.	544	243
	GS	5,521,302	05/28/96	Cook	536	25.31
	GT	5,525,465	06/11/96	Haralambidis et al.	435	6
	GU	5,525,711	06/11/96	Hawkins et al.	536	22.1
	GV	5,536,821	07/16/96	Agrawal et al.	536	22.1
	GW	5,539,082	07/23/96	Nielsen et al.	530	300
	GX	5,541,306	07/30/96	Agrawal et al.	536	22.1
	GY	5,541,307	07/30/96	Cook et al.	536	23.1
	GZ	5,541,313	07/30/96	Ruth	536	24.3
<i>u</i>	HA	5,543,508	08/06/96	Haseloff et al.	536	23.2

FOREIGN PATENT DOCUMENTS

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<i>24</i>	HB	5,545,729	08/13/96	Goodchild et al.	536	24.5
	HC	5,545,730	08/13/96	Urdea et al.	536	28.51
	HD	5,550,111	08/27/96	Suhadolnik et al.	514	44
	HE	5,552,538	09/03/96	Urdea et al.	536	24.3
	HF	5,552,540	09/03/96	Haralambidis	536	25.34
	HG	5,554,746	09/10/96	Ravikumar et al.	540	200
	HH	5,561,225	10/01/96	Maddry et al.	536	23.1
	HI	5,563,253	10/08/96	Agrawal et al.	536	22.1
	HJ	5,565,350	10/15/96	Kmiec	435	172.3
<i>24</i>	HK	5,565,552	10/15/96	Magda et al.	534	11

FOREIGN PATENT DOCUMENTS

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	Applicant Manoharan et al.	
	Filing Date October 9, 2001	Group Not yet assigned

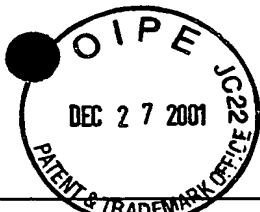
U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>W</i>	HL	5,567,810	10/22/96	Weis et al.	536	25.3
	HM	5,567,811	10/22/96	Misiura et al.	536	25.34
	HN	5,571,799	11/05/96	Tkachuk et al.	514	47
	HO	5,571,902	11/05/96	Ravikumar et al.	536	22.1
	HP	5,574,142	11/12/96	Meyer, Jr. et al.	536	23.1
	HQ	5,576,427	11/19/96	Cook et al.	536	23.1
	HR	5,578,717	11/26/96	Urdea et al.	536	26.1
	HS	5,578,718	11/26/96	Cook et al.	536	27.21
	HT	5,580,731	12/03/96	Chang et al.	435	6
<i>W</i>	HU	5,585,481	12/17/96	Arnold, Jr. et al.	536	25.33

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Examiner Initial		Document No.	Date	Name	Class	Subclass
<i>JK</i>	HV	5,587,361	12/24/96	Cook et al.	514	44
	HW	5,587,371	12/24/96	Sessler et al.	514	185
	HX	5,587,469	12/24/96	Cook et al.	536	23.1
	HY	5,587,470	12/24/96	Cook et al.	536	23.1
	HZ	5,591,584	01/07/97	Chang et al.	435	6
	IA	5,591,722	01/07/97	Montgomery et al.	514	45
	IB	5,594,121	01/14/97	Froehler et al.	536	23.5
	IC	5,595,726	01/21/97	Magda et al.	424	9.61
	ID	5,596,086	01/21/97	Matteucci et al.	536	22.1
<i>JK</i>	IE	5,596,091	01/21/97	Switzer	536	24.5

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<i>On</i>	IF	5,597,696	01/28/97	Linn et al.	435	6
	IG	5,597,909	01/28/97	Urdea et al.	536	24.3
	IH	5,599,797	02/04/97	Cook et al.	514	44
	II	5,599,923	02/04/97	Sessler et al.	540	145
	IJ	5,599,928	02/04/97	Hemmi et al.	540	474
	IK	5,602,240	02/11/97	De Mesmaeker et al.	536	23.1
	IL	5,608,046	03/04/97	Cook et al.	536	23.1
	IM	5,610,289	03/11/97	Cook et al.	536	25.34
	IN	5,610,300	03/11/97	Altmann et al.	544	244
<i>On</i>	IO	5,614,617	03/25/97	Cook et al.	536	23.1

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U. S. PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Name	Class	Subclass	
M	IP	5,618,704	04/08/97	Sanghvi et al.	435	91.5	
	IQ	5,623,065	04/22/97	Cook et al.	536	23.1	
	IR	5,623,070	04/22/97	Cook et al.	536	27.6	
	IS	5,625,050	04/29/97	Beaton et al.	536	24.1	
	IT	5,627,053	05/06/97	Usman et al.	435	91.1	
	IU	5,633,360	05/27/97	Bischofberger et al.	536	22.1	
	IV	5,639,873	06/17/97	Barascut et al.	536	25.3	
	IW	5,646,265	07/08/97	McGee	536	25.34	
	IX	5,652,355	07/29/97	Metelev et al.	536	24.5	
M	IY	5,652,356	07/29/97	Agrawal	536	24.5	
FOREIGN PATENT DOCUMENTS							
Examiner Initial		Document No.	Date	Country	Translation YES NO		
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List of Patent and Publications
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<i>h</i>	IZ	5,658,873	08/19/97	Bertsch-Frank et al.	510	375
	JA	5,663,312	09/02/97	Chaturvedula	536	22.1
	JB	5,670,633	09/23/97	Cook et al.	536	23.1
	JC	5,677,437	10/14/97	Teng et al.	536	23.1
	JD	5,677,439	10/14/97	Weis et al.	536	23.1
	JE	5,681,941	10/28/97	Cook et al.	536	23.1
	JF	5,688,941	11/18/97	Cook et al.	536	25.3
	JG	5,697,248	12/16/97	Brown	73	290 V
	JH	5,700,920	12/23/97	Altmann et al.	536	221
<i>m</i>	JI	5,700,922	12/23/97	Cook	536	23.1

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